

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P564870

Luminaire Tested: **SQ4-PW1-0U-100D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564870  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-0U-100D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

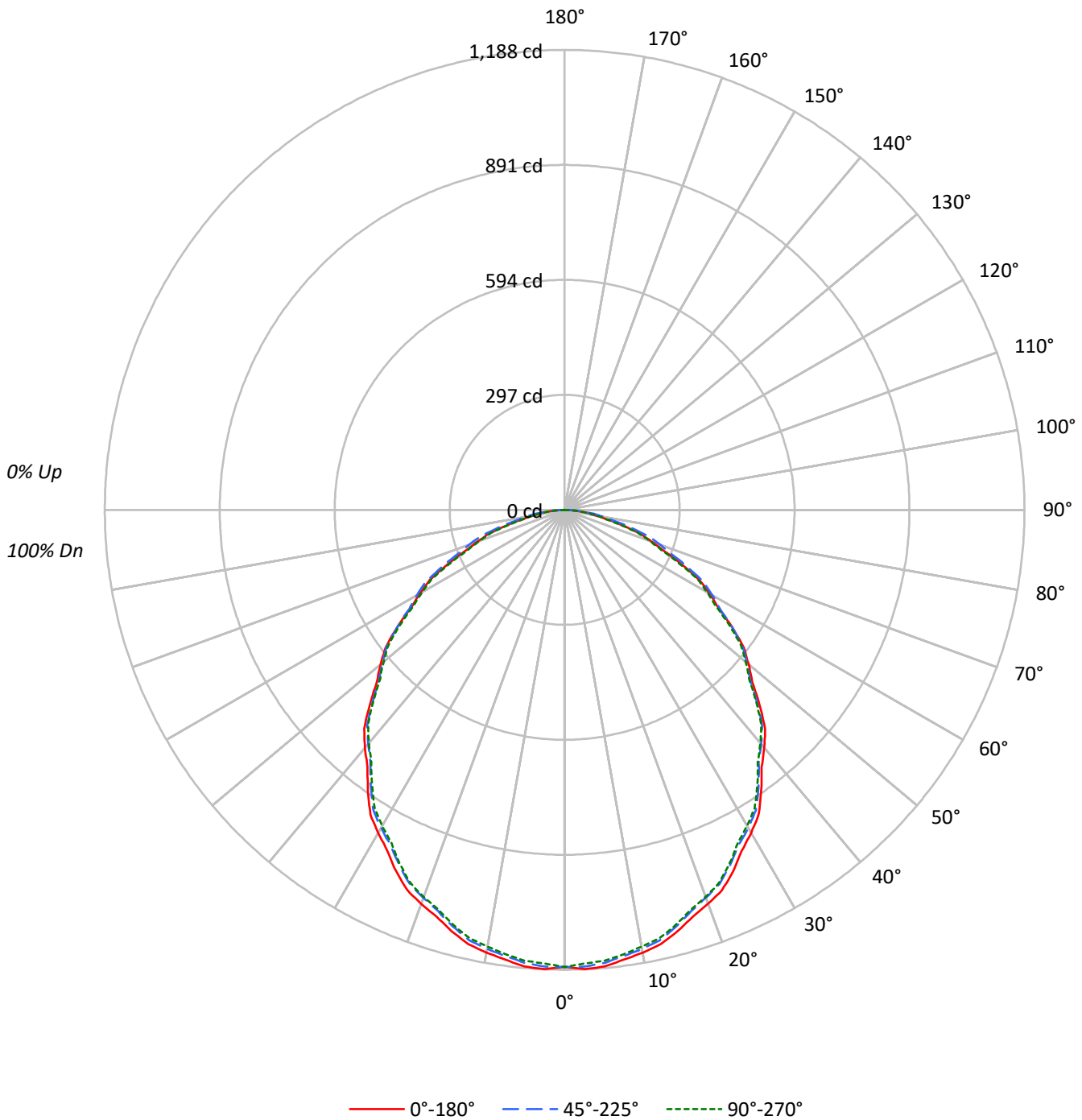
Lumens per Lamp: N/A  
Luminaire Lumens: 3004.6 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 32.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92		94	92	89		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31		42	35	30		41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28		39	32	28		38	32	28	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10895	10895	10895
5°	10966	10879	10831
10°	10879	10791	10733
15°	10763	10643	10604
20°	10634	10471	10451
25°	10486	10295	10263
30°	10265	10109	10043
35°	9972	9833	9774
40°	9662	9511	9474
45°	9286	9163	9123
50°	8901	8826	8767
55°	8485	8485	8352
60°	7968	8121	7833
65°	7292	7654	7110
70°	6428	7046	6258
75°	5490	6306	5340
80°	4256	5308	4314
85°	2752	4076	3631



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.2	3.7
10°-20°	314.0	10.4
20°-30°	465.7	15.5
30°-40°	544.9	18.1
40°-50°	542.5	18.1
50°-60°	468.5	15.6
60°-70°	337.2	11.2
70°-80°	176.8	5.9
80°-90°	43.8	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	890.9	29.6
0°-40°	1435.8	47.8
0°-60°	2446.7	81.4
0°-90°	3004.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3004.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1184	1171	1175	1172	1170	112
15°	1127	1113	1114	1112	1110	318
25°	1030	1013	1011	1005	1008	474
35°	885	873	873	865	868	554
45°	712	706	702	700	699	549
55°	528	526	528	520	519	471
65°	334	344	351	337	326	331
75°	154	168	177	165	150	165
85°	26	34	38	36	34	35
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1180.9	1180.9	1180.9	1180.9	1180.9
2.5°	1187.6	1177.8	1180.9	1178.3	1172.6
5°	1184.1	1170.8	1174.7	1171.5	1169.5
7.5°	1172.0	1159.8	1162.6	1159.3	1158.0
10°	1161.2	1149.0	1151.8	1147.6	1145.6
12.5°	1148.7	1135.7	1138.5	1134.3	1133.1
15°	1126.8	1112.6	1114.3	1112.2	1110.2
17.5°	1101.4	1087.0	1087.3	1084.0	1083.5
20°	1083.1	1067.9	1066.5	1062.4	1064.4
22.5°	1063.2	1047.1	1045.7	1039.9	1042.8
25°	1030.1	1012.8	1011.3	1005.2	1008.2
27.5°	991.8	974.7	974.7	966.0	969.3
30°	963.5	947.2	948.9	938.6	942.7
32.5°	933.5	918.9	919.8	909.5	913.5
35°	885.4	873.2	873.0	864.7	867.8
37.5°	836.3	825.5	823.8	819.1	819.9
40°	802.2	793.0	789.7	786.6	786.6
42.5°	766.4	758.1	754.8	752.5	751.6
45°	711.7	705.6	702.3	700.2	699.2
47.5°	657.6	651.9	649.0	647.6	646.5
50°	620.1	616.1	614.9	611.8	610.8
52.5°	582.7	580.2	579.1	575.1	574.1
55°	527.5	526.5	527.5	520.2	519.2
57.5°	470.1	471.7	475.1	465.2	462.8
60°	431.8	435.9	440.1	428.6	424.5
62.5°	392.7	399.2	405.2	391.9	386.2
65°	334.0	344.2	350.6	336.9	325.7
67.5°	277.4	290.0	297.8	282.9	270.3
70°	238.3	252.5	261.2	246.3	232.0
72.5°	204.1	220.0	227.0	213.0	198.7
75°	154.0	168.2	176.9	165.1	149.8
77.5°	109.2	122.7	129.9	119.6	107.0
80°	80.1	94.4	99.9	91.3	81.2
82.5°	56.8	68.6	72.4	67.3	60.3
85°	26.0	34.2	38.5	36.4	34.3
87.5°	6.7	12.4	15.8	15.8	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)